Arizona State Retirement System Board



International Equity Asset Class

Gary R. Dokes, Chief Investment Officer
Dan Kapanak, Manager of Investment Strategies
Terry A. Dennison, Mercer Investment Consulting
April 18, 2008

Presentation Topics

- International Equity Asset Class (Aggregate)
 - Asset Class Snapshot
 - Mandates Overview
 - Quantitative:
 - Risk/Return Bubble Charts
 - Performance Analysis (Returns Based)
 - Alpha
 - Information Ratio
 - Peer Review
 - Positions (Holdings Based)
 - Style Analysis
 - Economic Sectors
 - Country/ Currency Exposure
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- International Equity Manager Reviews (Individual)
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 - People, Philosophy, Process
 - Quantitative:
 - Performance Analysis (Returns Based)
 - Alpha
 - Information Ratio
 - Peer Review
 - Positions (Holdings Based)
 - Style Analysis
 - Economic Sectors
 - Country/ Currency Exposure
 - Mercer Manager Review

ASRS International Equity Asset Class (Aggregate)

ASRS International Equity Asset Class December 31, 2007

- Market Value: \$5.0b
- Passive Percent: 16%
 - Target 10% 5%
- Active Style Composition:

- Core: 23%

– Growth: 21%

- Value: 44%

- Small Cap: 12%

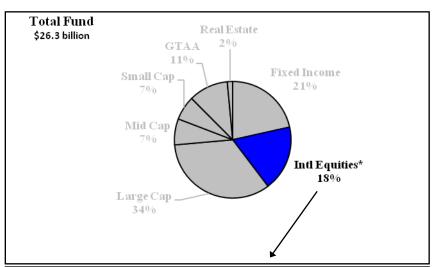
• Portfolios:

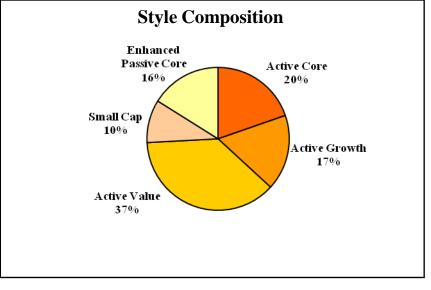
- 1 Enhanced Passive
- 5 Active:

• Quantitative: 2

• Fundamental: 3

Average Fee: 38bp





^{*} The International Equity asset class excludes GTAA International allocations.

ASRS International Equity Managers Mandates Overview December 31, 2007

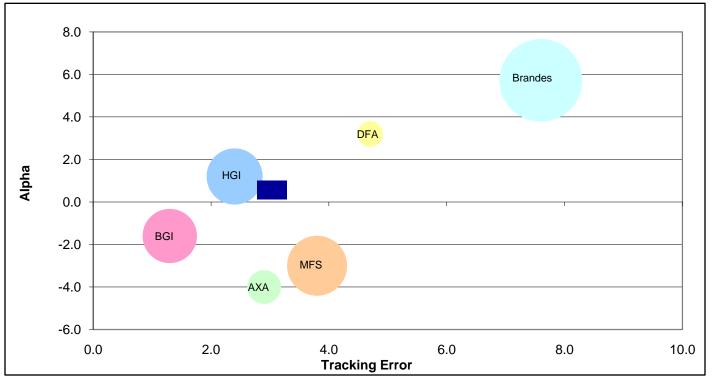
Manager	Style	Benchmark	Inception	Expected Alpha (bp)	Portfolio Assets (\$mil)	Strategy Assets (\$mil) ¹
Large Cap						
Brandes (Active)	Value	MSCI ACWI ex-U.S.	9/30/98	250	\$ 1,863	\$49,902
MFS (Active)	Core/ Growth	MSCI ACWI ex-U.S.	7/31/05	200	\$982	\$17,213
Hansberger (Active)	Growth	MSCI ACWI ex-U.S.	7/31/05	300	\$858	\$ 5,468
BGI (Enh. Passive)	Core	MSCI ACWI ex-U.S.	9/30/05	100	\$803	\$13,680
Small Cap						
AXA Rosenberg (Active)	Small Cap	MSCI EAFE Small Cap	8/31/05	400	\$311	\$6,855
DFA (Active)	Small Cap	MSCI EAFE Small Cap	8/31/05	300	\$177	\$8,482

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Risk/Return Bubble Chart

ASRS International Equity Asset Class

Inception Date* – Period Ending December 31, 2007

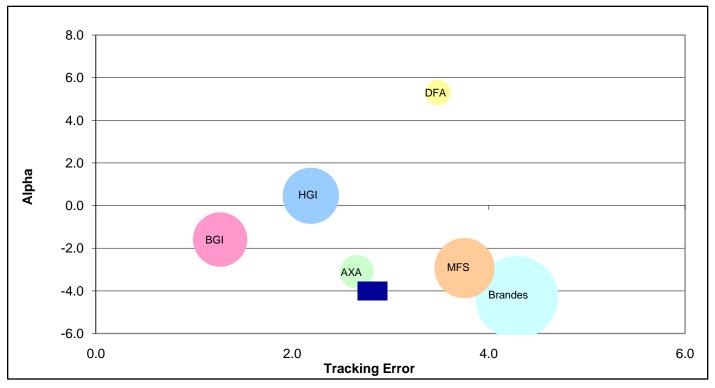


Manager	Portfolio Size	Inception*	Alpha	Tracking Error	Information Ratio
Brandes	\$1,862.6	9/30/1998	5.7	7.6	0.8
MFS	\$981.9	7/31/2005	-3.0	3.8	-0.8
Hansberger	\$858.1	7/31/2005	1.2	2.4	0.5
BGI ACWI	\$802.7	9/30/2005	-1.6	1.3	-1.3
AXA	\$310.7	8/31/2005	-4.0	2.9	-1.4
DFA	\$176.8	8/31/2005	3.5	4.7	0.8
Asset Class	\$4,992.8	4/30/1987	0.5	3.2	0.2

Risk/Return Bubble Chart

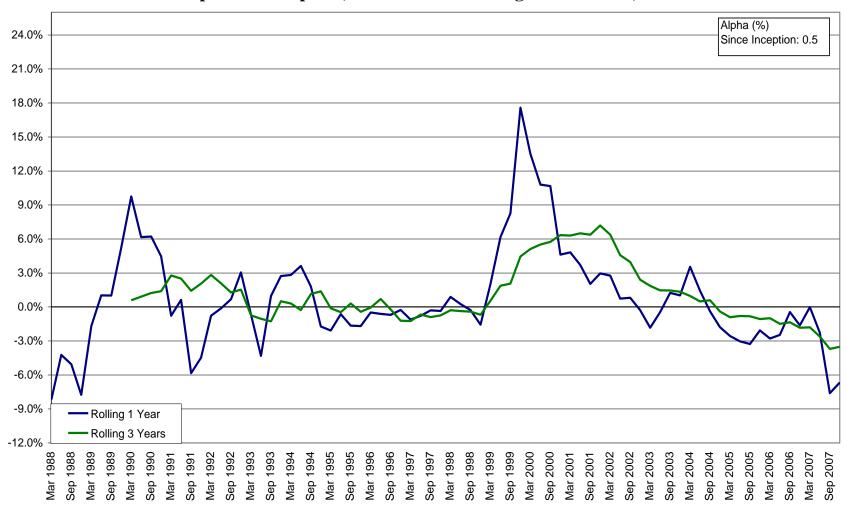
ASRS International Equity Asset Class

2 Year Period Ending December 31, 2007



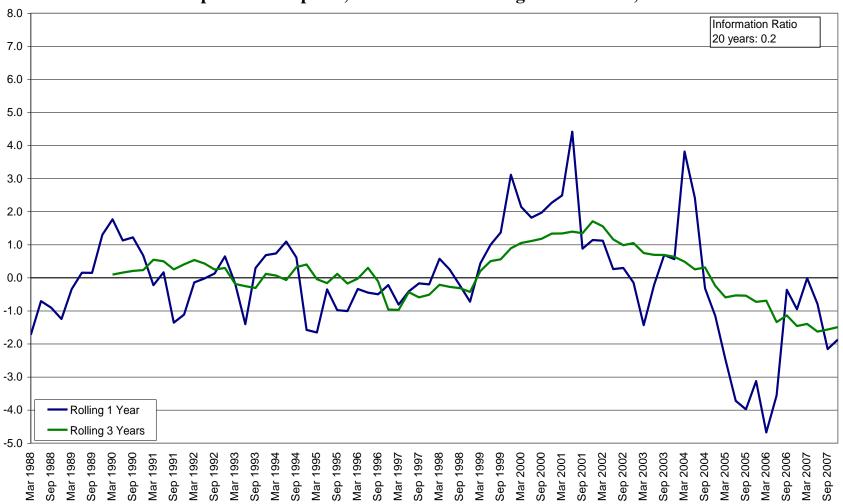
Manager	Portfolio Size	Alpha	Tracking Error	Information Ratio
Brandes	\$1,862.6	-4.3	4.3	-1.0
MFS	\$981.9	-2.9	3.8	-0.8
Hansberger	\$858.1	0.5	2.2	0.2
BGI ACWI	\$802.7	-1.6	1.3	-1.3
AXA	\$310.7	-3.1	2.7	-1.2
DFA	\$176.8	5.7	3.5	1.6
Asset Class	\$4,992.8	-4.3	2.7	-1.6

Alpha
ASRS International Equity Asset Class
Inception Date April 1, 1987 – Period Ending December 31, 2007



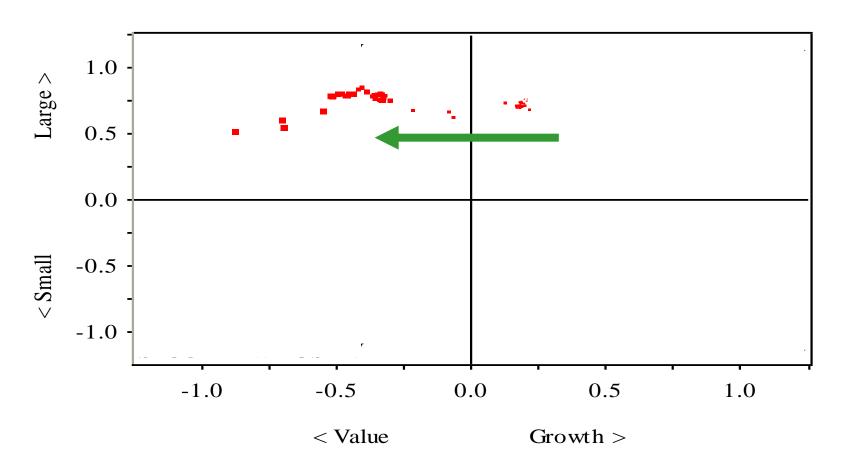
Information Ratio ASRS International Equity Asset Class

Inception Date April 1, 1987 – Period Ending December 31, 2007

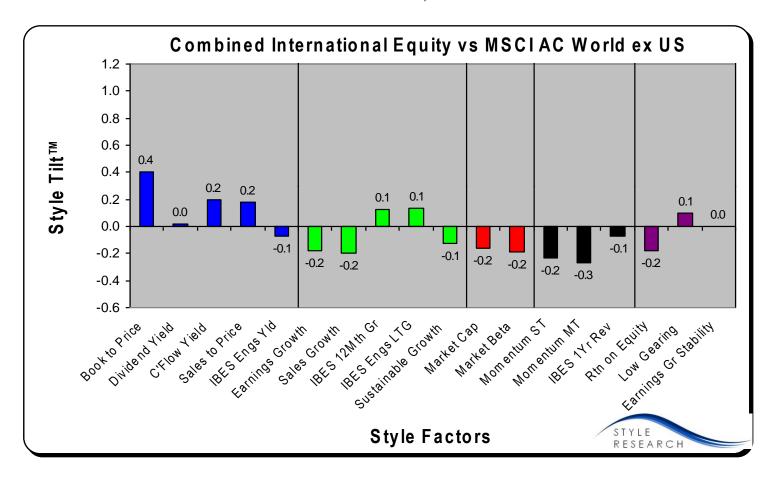


Positions: Style Analysis

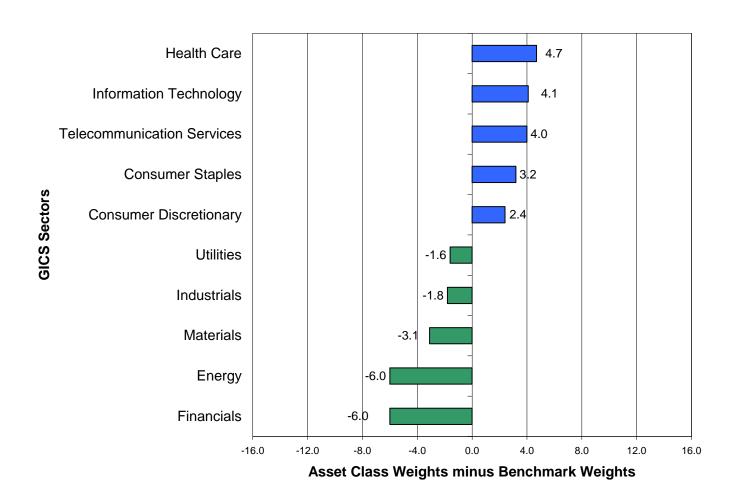
ASRS International Equity Asset Class 10-Year Period Ending December 31, 2007



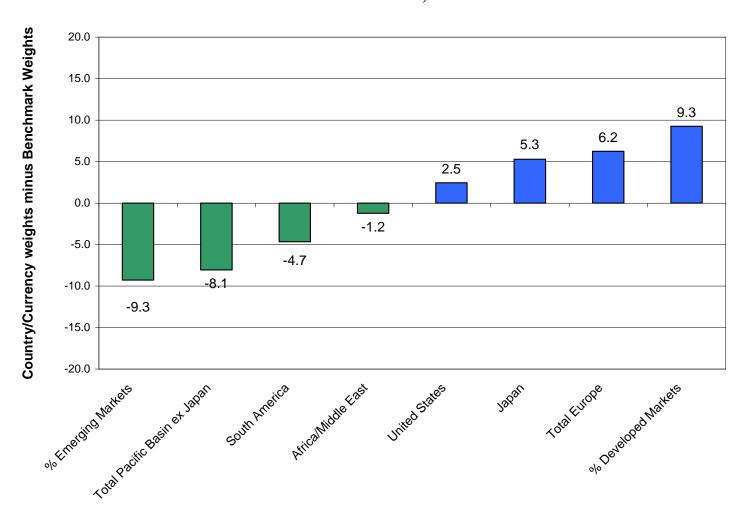
Positions: Style Analysis – Portfolio Style Skyline ASRS International Equity Asset Class As of December 31, 2007



Positions: Economic Sectors ASRS International Equity Asset Class As of December 31, 2007



Positions: Country/Currency Exposure ASRS International Equity Asset Class As of December 31, 2007



ASRS International Equity Managers Mercer Ratings December 31, 2007

Mercer ratings signify Mercer's opinion as to an investment strategy's prospect for outperforming a suitable benchmark, on a risk-adjusted basis, over a full market cycle.

Manager	Strategy	Mercer Rating	Rating Date
Brandes	Value	A- (T)	11/8/07
MFS	Core/Growth	A	11/8/07
Hansberger	Growth	A	12/7/07
BGI	Core	A	11/8/07
AXA	Small Cap	A	8/7/07
DFA	Small Cap	A-	8/7/07

[&]quot;A" Rated Strategies are assessed as having above average prospects.

[&]quot;B" Rated Strategies are assessed as having average prospects.

[&]quot;C" Rated Strategies are assessed as having below average prospects.

[&]quot;A-" and "B+" are intermediate categories in between "A" and "B" ratings.

[&]quot;B-" is an intermediate category in between "B" and "C" ratings.

[&]quot;N" Rated Strategies are not currently rated by Mercer.

International Equity Manager Reviews (Individual)

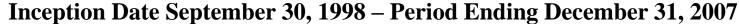
Brandes Investment Partners Qualitative Factors

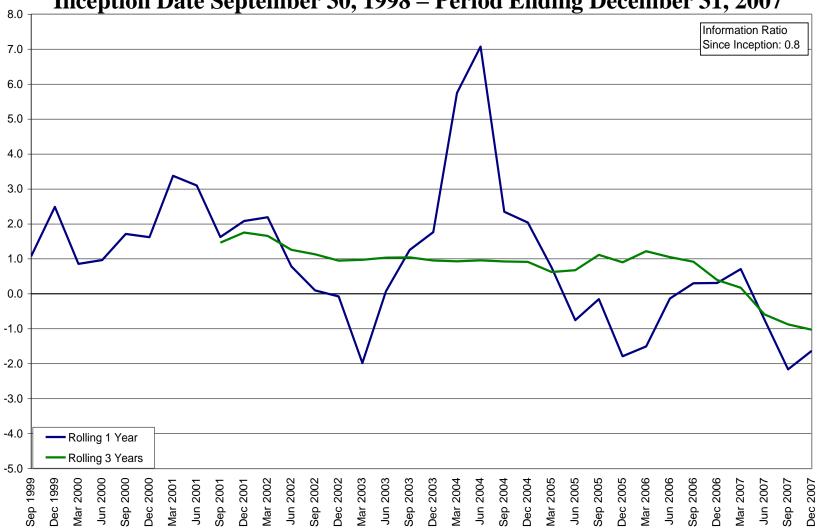
Factors	Description
People	 Investment Committee responsible for investment decisions. Stable team, low turnover among investment professionals.
Philosophy	 Believe that buying businesses at a discount to the firm's estimate of their true value should produce positive long-term results. Bottom-up, Graham & Dodd, value-oriented investment manager.
Process	 Initial candidates are identified by analysts through research reports, outside contacts, screens for low valuation ratios, regulatory filings, brokerage research, etc. Candidates are reviewed with the primary emphasis on financials statement analysis. Weightings for sectors, regions, etc. result from individual companies trading at significant discounts to the firm's estimate of their intrinsic value, although there are limits to reduce risk and ensure diversification. Brandes has a more concentrated portfolio, which results in higher tracking error. Low portfolio turnover given long-term investment horizon.

Alpha
Brandes Investment Partners
Inception Date September 30, 1998 – Period Ending December 31, 2007



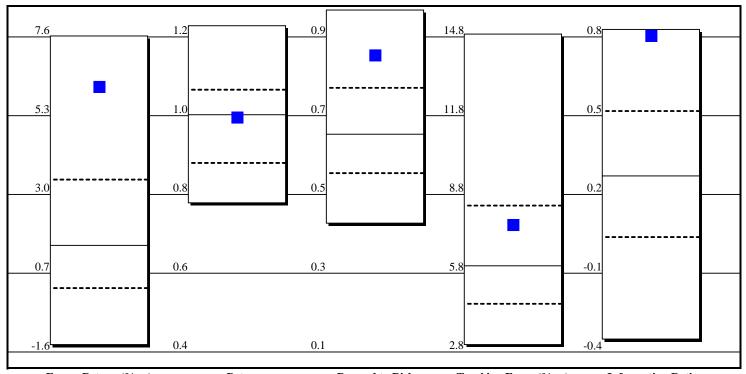
Information Ratio Brandes Investment Partners





Peer Comparison with the Mercer International Equity Universe Brandes Investment Partners

Inception Date September 30, 1998 – Period Ending December 31, 2007

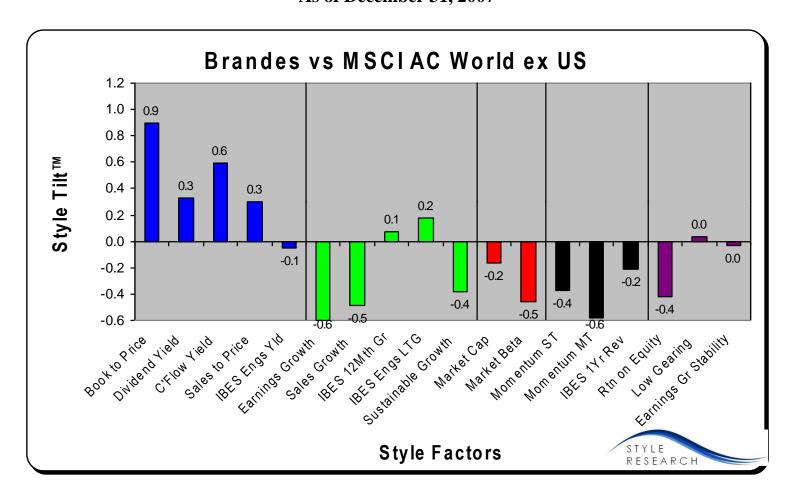


Exc	cess Return (%pa)	Beta	Reward to Risk	Tracking Error (%pa)	Information Ratio
BranGross	6.1 (9)	1.0 (53)	0.9 (15)	7.6 (33)	0.8 (6)
5th Percentile	7.6	1.2	1.0	14.9	0.8
Upper Quartile	3.4	1.1	0.8	8.4	0.5
Median	1.5	1.0	0.7	6.0	0.3
Lower Quartile	0.2	0.9	0.6	4.6	0.0
95th Percentile	-1.4	0.8	0.4	3.0	-0.4
Number of Funds	159	159	159	159	159

Please note this chart has been calculated using Gross of Fees

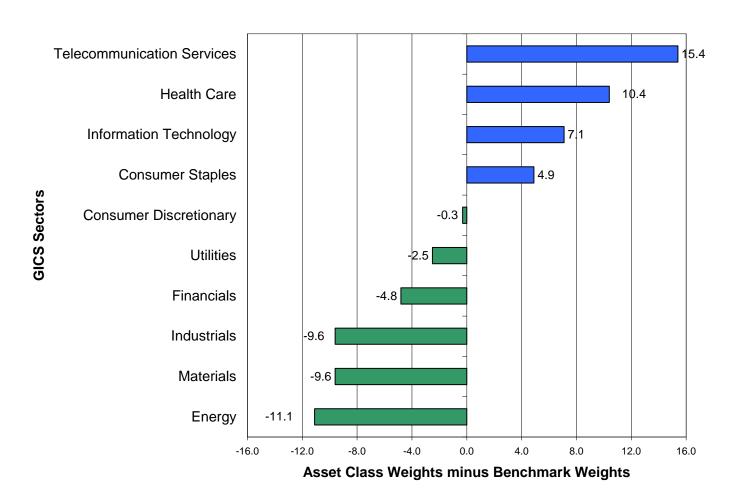
Risk and Return characteristics calculated quarterly versus Custom Benchmark

Positions: Style Analysis – Portfolio Style Skyline Brandes Investment Partners As of December 31, 2007



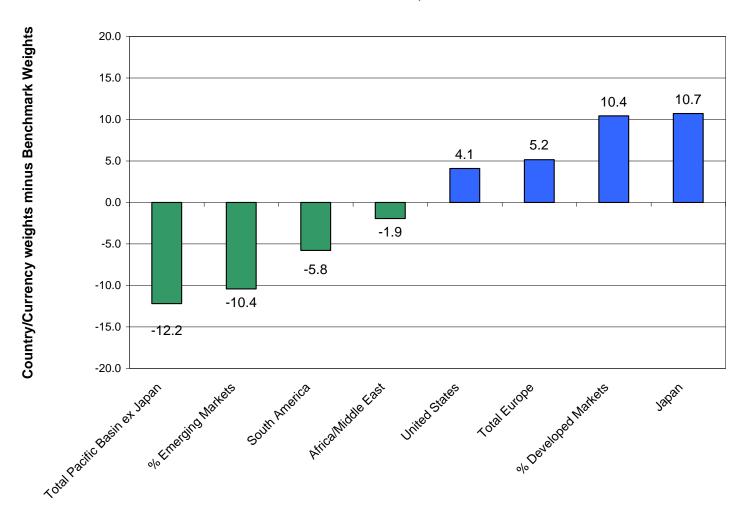
Positions: Economic Sectors

Brandes Investment Partners As of December 31, 2007



Positions: Country/Currency Exposure

Brandes Investment Partners As of December 31, 2007



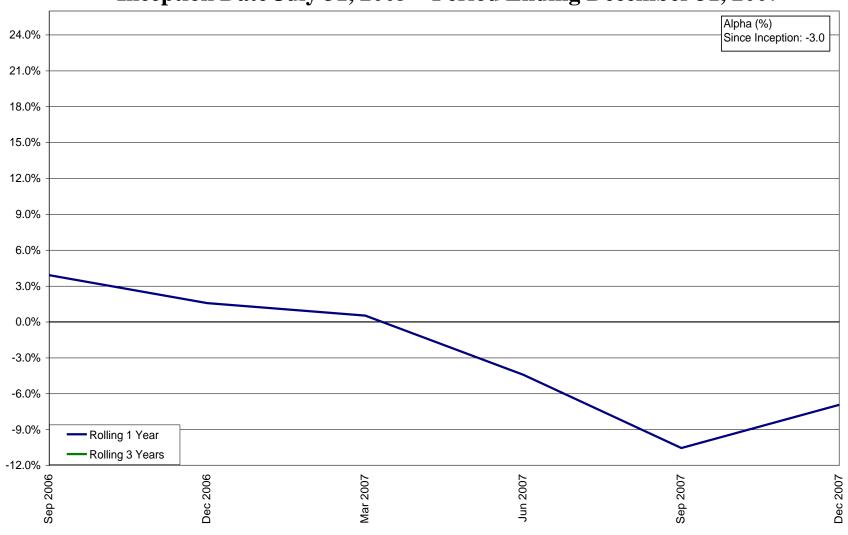
Mercer Manager Review As of December 31, 2007

Brandes Investm	Brandes Investment Partners – International Equity – Active International Value					
Factor	Rating (-, =, + or ++)	Comments				
Idea Generation	++	Brandes' strengths are its deep team of sector specialist researchers, its				
Portfolio Construction	+	rigid adherence to the Graham and Dodd style of value investing, and its culture, which fully supports these attributes. Its singular focus is on determining the intrinsic value of a business and buying those companies				
Implementation	Ш	trading well below that intrinsic value. This deep value style leads Brandes				
Business Management	++	to companies that are experiencing problems and shunned by most other investors. The process does not explicitly reject companies because of perceived quality issues, nor does it look for catalysts for unlocking value.				
Overall Rating	A- (T)	In these ways, Brandes differentiates itself from other value investors, though the strategy may be susceptible to the value trap if the investment				
Rating Date	11/8/2007	team gets its analysis wrong. With its longer-term investment horizon and concentrated portfolios, Brandes' performance can veer from the benchmark over brief periods, especially when one sector drives most of the market's returns. Investors with Brandes should ignore quarter to quarter and annual performance. This strategy is only suitable for long-term investors because over longer stretches, the firm's patient approach, founded on mean reversion, has tended to work well.				

MFS Qualitative Factors

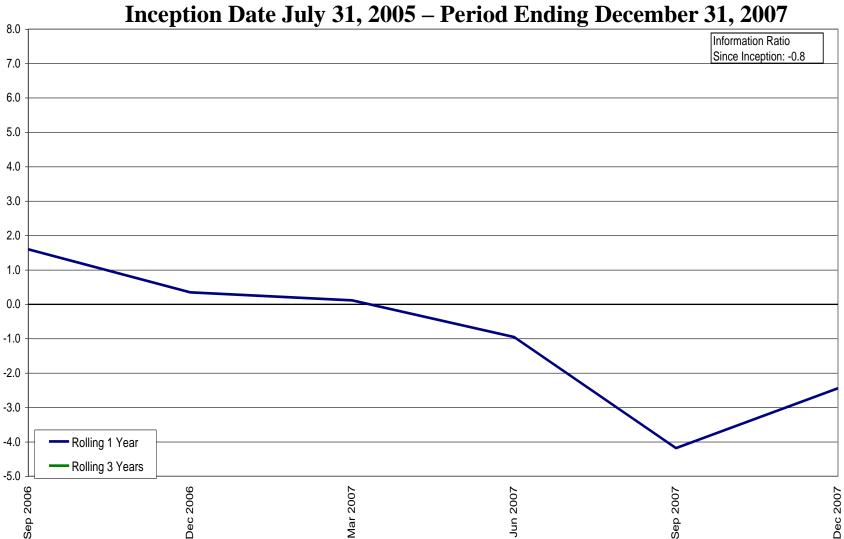
Factors	Description
People	 Team-based approach, research analysts provide ideas; however, Portfolio Managers have ultimate decision-making authority. Interaction among Investment Committee, Analysts, Portfolio Managers, Compliance Department and Traders.
Philosophy	• Stocks of companies that provide above-average sustainable earnings growth and trade at a discount to their expected growth rate should outperform the market.
Process	 Believe bottom-up fundamental research provides the best means of consistently identifying good quality investment opportunities. Rather than rely on sell-side estimates, MFS interviews company management, builds proprietary earnings models and rates stocks within industry coverage. Incorporate the most attractive opportunities across all sectors and all regions to build a diversified portfolio. Risk management occurs at the security, portfolio and firm levels.

Alpha MFS Investment Management Inception Date July 31, 2005 – Period Ending December 31, 2007

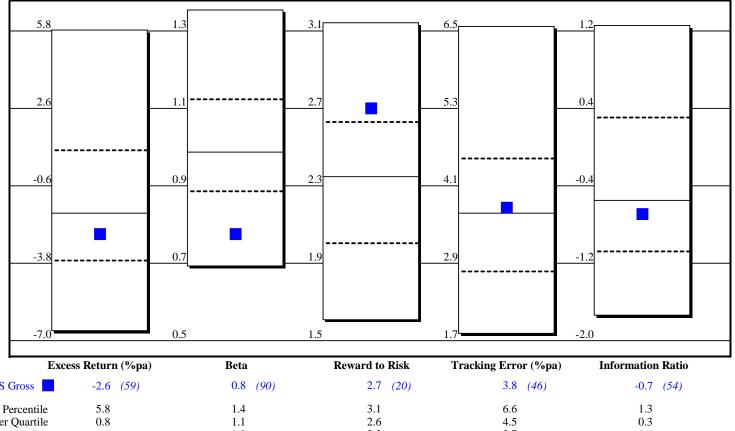


Calculated quarterly

Information Ratio MFS Investment Management



Peer Comparison with the Mercer International Equity Universe MFS Investment Management Inception Date July 31, 2005 – Period Ending December 31, 2007



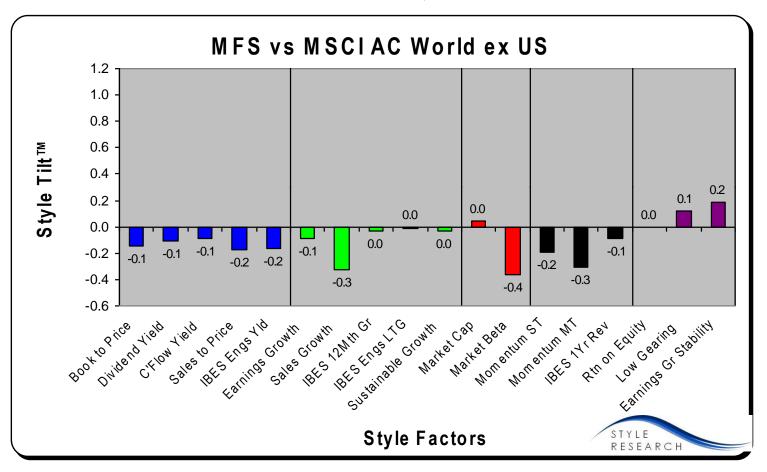
	` • ′				
MFS Gross	-2.6 (59)	0.8 (90)	2.7 (20)	3.8 (46)	-0.7 (54)
5th Percentile	5.8	1.4	3.1	6.6	1.3
Upper Quartile	0.8	1.1	2.6	4.5	0.3
Median	-1.7	1.0	2.3	3.7	-0.6
Lower Quartile	-3.7	0.9	2.0	2.8	-1.1
95th Percentile	-6.6	0.7	1.6	1.8	-1.7
Number of Funds	283	283	283	283	283

Please note this chart has been calculated using Gross of Fees Risk and Return characteristics calculated quarterly versus MSCI AC World ex U.S.

Positions: Style Analysis – Portfolio Style Skyline

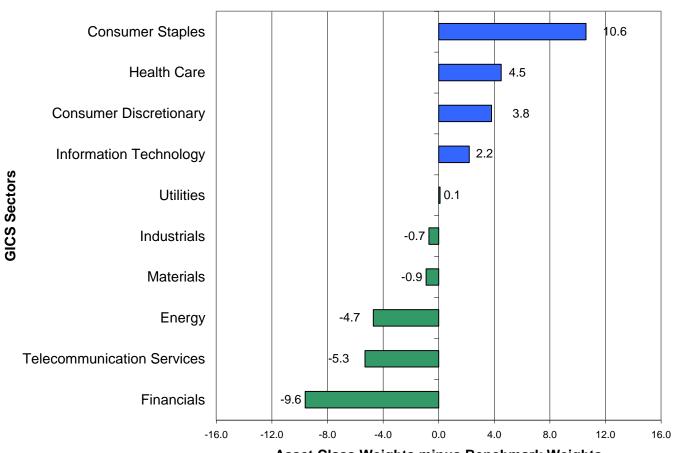
MFS Investment Management

As of December 31, 2007



Positions: Economic Sectors

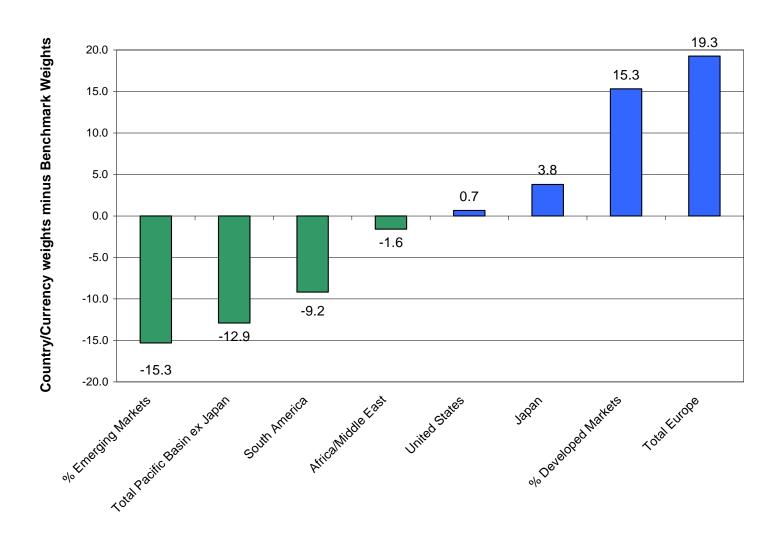
MFS Investment Management As of December 31, 2007



Asset Class Weights minus Benchmark Weights

Positions: Country/Currency Exposure

MFS Investment Management As of December 31, 2007



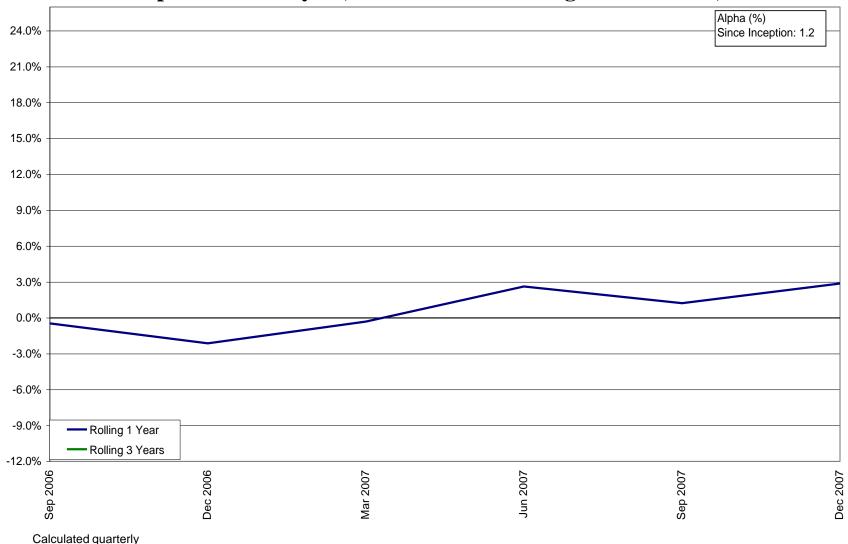
Mercer Manager Review As of December 31, 2007

MFS Investment Management – International Equity – Active International Core						
Factor	Rating (-, =, + or ++)	Comments				
Idea Generation	++	David Mannheim, Simon Todd, and Marcus Smith are exceptionally				
Portfolio Construction	+	competent portfolio managers and are supported by a well-resourced team of associate portfolio managers and industry analysts. Their experience, talent and insight leads to a well-executed investment				
Implementation	+	process. While MFS has a strong team of research analysts to supposits various strategies, it is the strength of the portfolio management team that drives the global products. The investment strategy of focusing on stocks with above average,				
Business Management	+					
Overall Rating	Α	sustainable growth at reasonable valuations has led to a core portf				
Rating Date	11/8/2007	that exhibits a slight growth orientation. Because of its quality orientation, the Global Equity product tends to underperform during markets favoring speculative names.				

Hansberger Global Investors Qualitative Factors

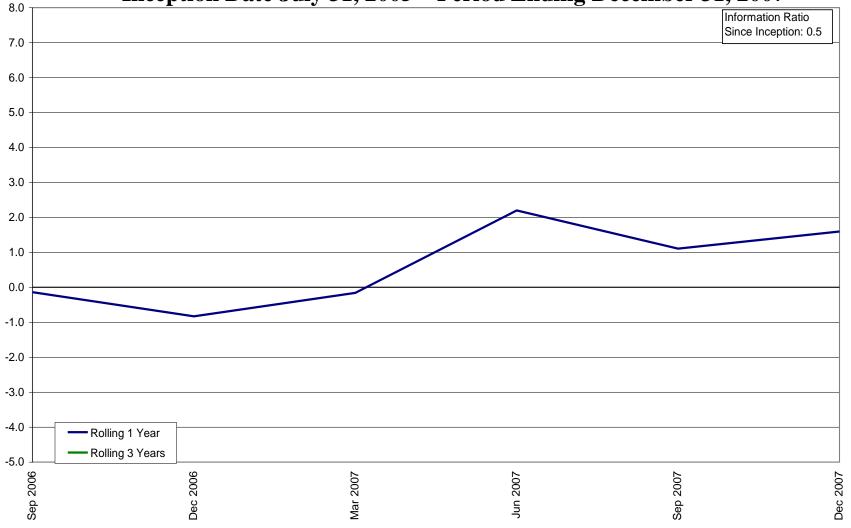
Factors	Description
People	• Team-based approach, investment professionals and industry analysts provide ideas; however, CIO has ultimate decision-making authority backed up by the Portfolio Management team.
Philosophy	• Believe that superior growth companies with attractive valuations and a competitive market advantage provide the best opportunities for investment.
Process	 Quantitative screens are used to identify the top quintile of stocks with superior growth characteristics, these screens result in approximately 500 stocks known as a "Star List." The "Star List" is rated based on relative valuation and price momentum; the top 80-100 stocks are considered for portfolio inclusion.
	 Fundamental analysis is used to further refine the list and identify any issues the quantitative approach may have overlooked. Portfolios are diversified.

Alpha Hansberger Global Investors Inception Date July 31, 2005 – Period Ending December 31, 2007

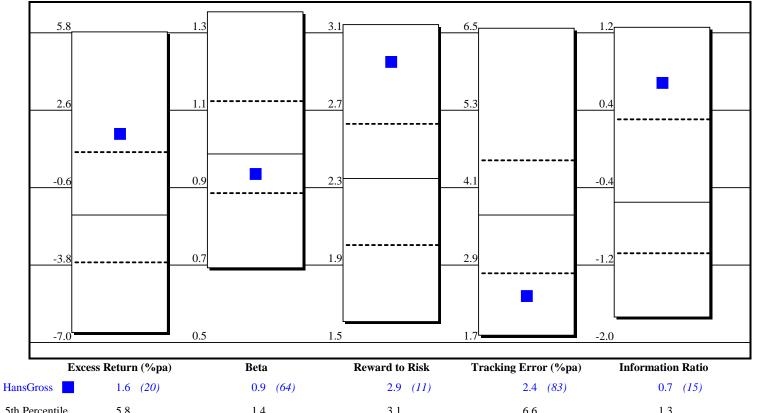


Information Ratio Hansberger Global Investors





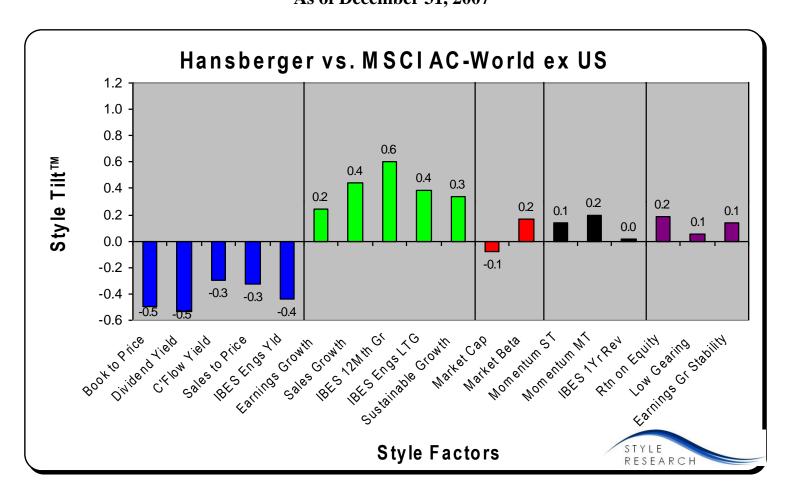
Peer Comparison with the Mercer International Equity Universe Hansberger Global Investors Inception Date July 31, 2005 – Period Ending December 31, 2007



5th Percentile 5.8 1.4 3.1 6.6 1.3 0.8 2.6 4.5 0.3 Upper Quartile 1.1 Median -1.7 1.0 2.3 3.7 -0.6 0.9 2.0 Lower Quartile -3.7 2.8 -1.1 95th Percentile -6.6 0.7 1.6 1.8 -1.7 Number of Funds 283 283 283 283 283

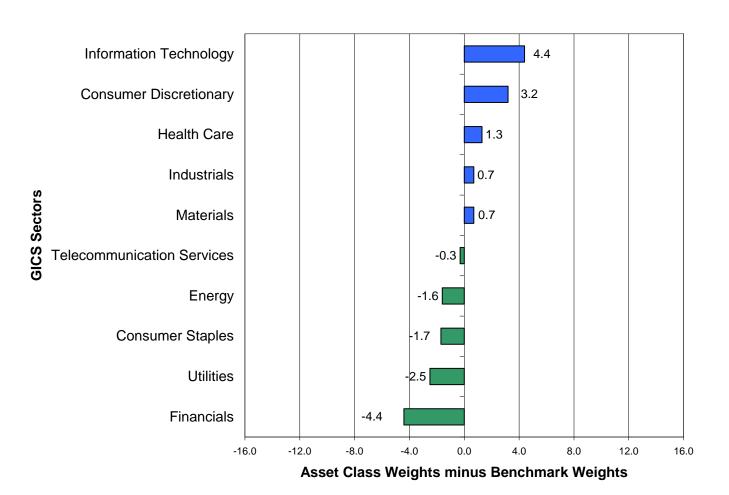
Please note this chart has been calculated using Gross of Fees Risk and Return characteristics calculated quarterly versus MSCI AC World ex U.S.

Positions: Style Analysis – Portfolio Style Skyline Hansberger Global Advisors As of December 31, 2007



Positions: Economic Sectors

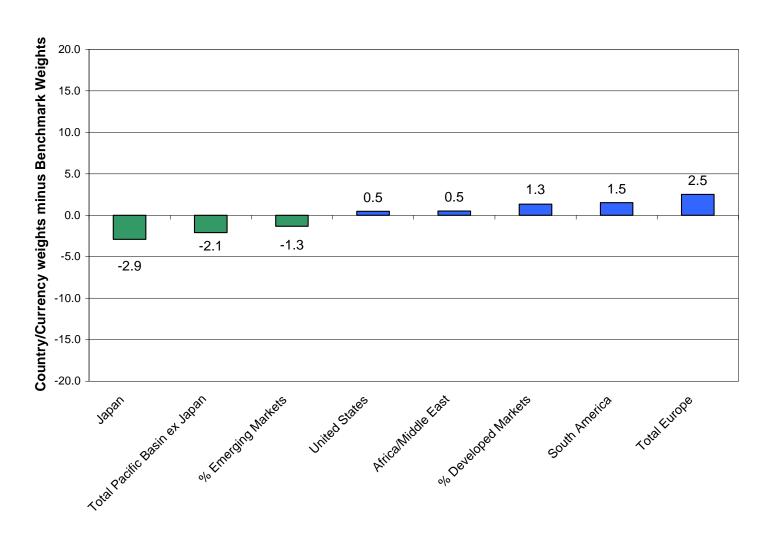
Hansberger Global Advisors As of December 31, 2007



Benchmark weights are the weights of MSCI ACWI ex. U.S. Index

Positions: Country/Currency Exposure

Hansberger Global Advisors As of December 31, 2007



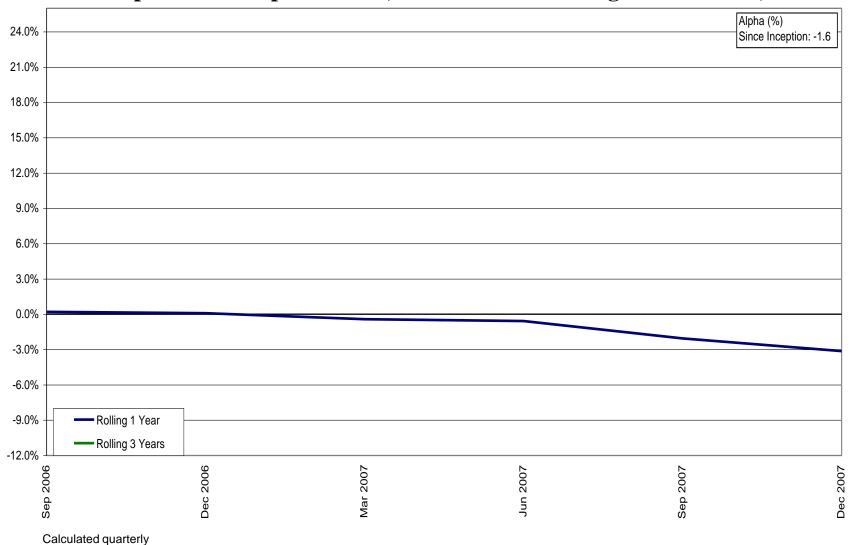
Mercer Manager Review As of December 31, 2007

Hansberger Global Investors – International Equity – Active International Growth					
Factor	Rating (-, =, + or ++)	Comments			
Idea Generation	++	We regard portfolio manager Tom Tibbles highly, both as an insightful			
Portfolio Construction	+	and talented investor and a strong team leader. The core of the team has been together since 1996, and new members have been added through the 2000s. The team has developed and consistently used a process of quantitative screening, standardized research, and a consistent set of buy/sell factors to implement its investment philosophy. The process has been stable since inception in 1996 and has proven itself over time, so the team keeps it simple by re-doing what's been working. The team has stuck to its high quality, large cap, growth style. We believe that the process and the strategy's success			
Implementation	+				
Business Management	+				
Overall Rating	Α				
Rating Date	12/7/2007	are repeatable.			

BGI Global ex-US Alpha Tilts Qualitative Factors

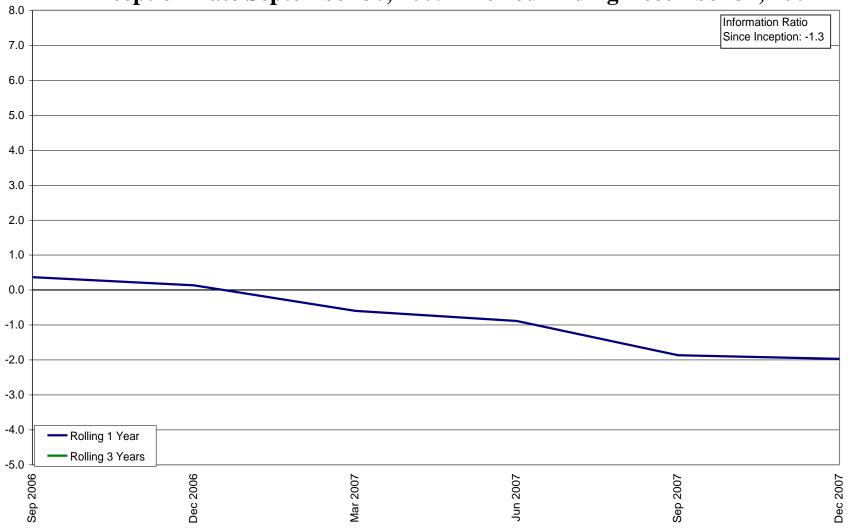
Factors	Description		
People	• Team approach in the areas of strategy, portfolio management, client service, research, trading and operations support.		
	• Investment professionals work on multiple strategies and team members are easily interchangeable.		
	• Research is conducted by over 200 experienced academics and investment professionals. The research group does not have portfolio management or marketing responsibilities.		
Philosophy	• Seek to capture systematic return effects driven by market inefficiencies that are undiscovered or ignored by many investors while minimizing uncompensated risks.		
Process	• BGI uses a proprietary alpha forecasting model and an advanced optimization process to select stocks in the developed market portion of the Global Ex-US Alpha Tilts Fund.		
	• Active risk is allocated to Europe, Japan and Canada. No risk exposure/passive allocation assigned to New Zealand, Australia, Emerging Markets, Hong Kong and Singapore.		
	• The models quantify complex pricing relationships across the equity markets and identify the sources or factors of equity returns that are slightly mispriced by the market. The portfolio is structured to emphasize (or "tilt" toward) return factors that are undervalued.		
	The models use relative value, earnings quality and sentiment signals.		
	• Each developed market regional tilts portfolio is optimized separately. The resulting portfolios are highly diversified.		

Alpha Barclays Global Investors Inception Date September 30, 2005 – Period Ending December 31, 2007



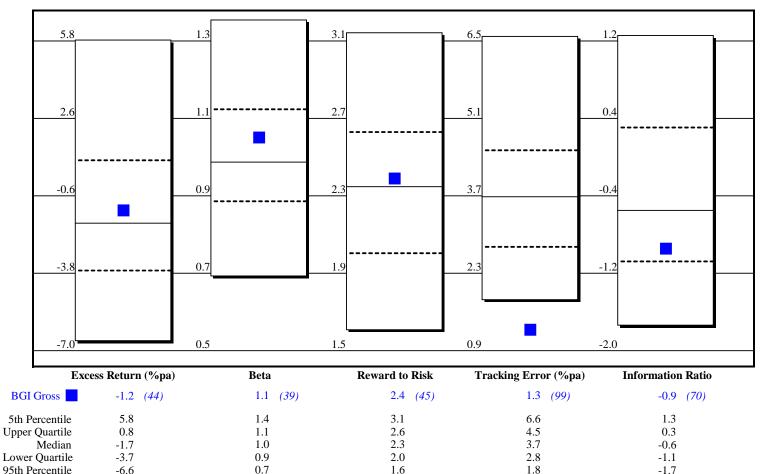
Information Ratio Barclays Global Investors

Inception Date September 30, 2005 – Period Ending December 31, 2007



Peer Comparison with the Mercer International Equity Universe Barclays Global Investors

Inception Date September 30, 2005 – Period Ending December 31, 2007



283

283

283

Please note this chart has been calculated using Gross of Fees

283

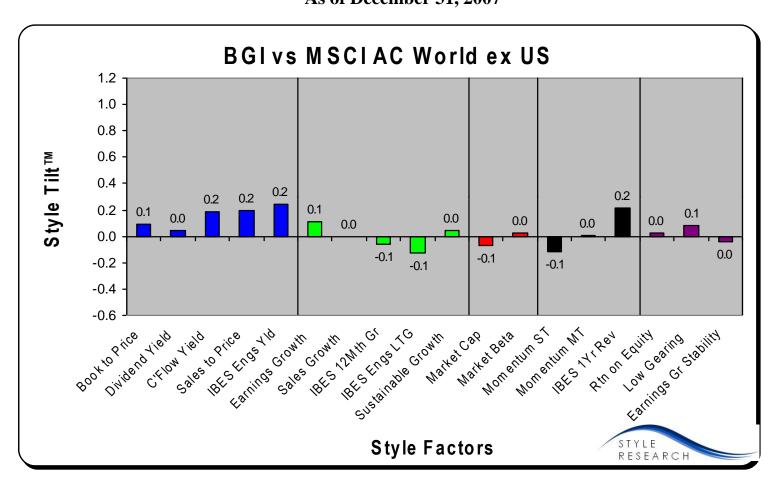
Number of Funds

Risk and Return characteristics calculated quarterly versus MSCI AC World ex U.S.

283

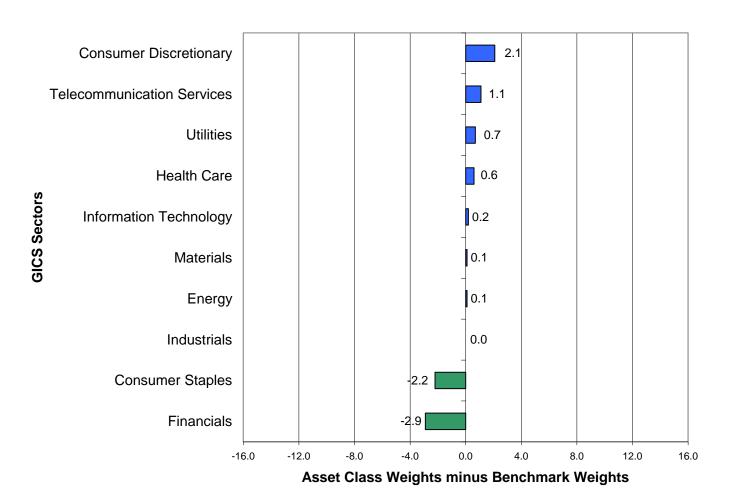
Positions: Style Analysis – Portfolio Style Skyline Barclays Global Investors

As of December 31, 2007



Positions: Economic Sectors

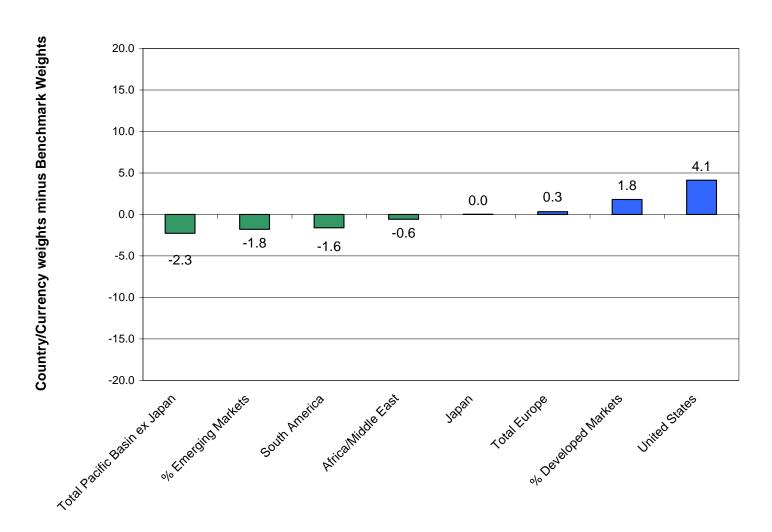
Barclays Global Investors As of December 31, 2007



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Positions: Country/Currency Exposure

Barclays Global Investors As of December 31, 2007



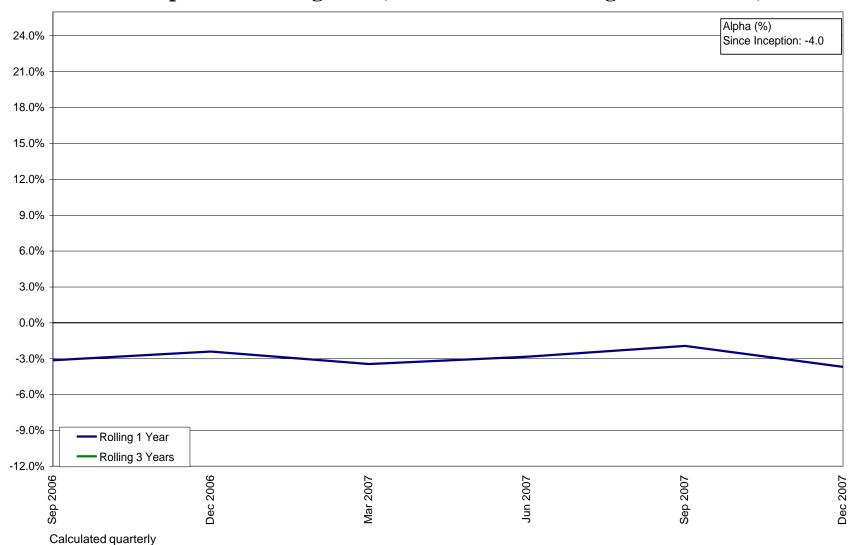
Mercer Manager Review As of December 31, 2007

Barclays Global Investors – International Equity – Enhanced Passive					
Factor	Rating (-, =, + or ++)	Comments			
Idea Generation	++	The primary reason for our high conviction in the Alpha Tilts strategy is			
Portfolio Construction	++	BGI's constant emphasis on improving risk-adjusted performance, whether through investigating ways to increase the efficacy of the model's signals or through reducing transactions costs. We also			
Implementation	++	remain impressed with the firm's commitment to research and its			
Business Management	+	 ability to attract and retain top investment talent and "thought leaders" in various fields of research. Due to the nature of the investment process, the portfolio possesses a very low risk profile. 			
Overall Rating	Α	The strategy is designed to benefit from the increased liquidity in OT			
Rating Date	11/8/2007	derivatives.			

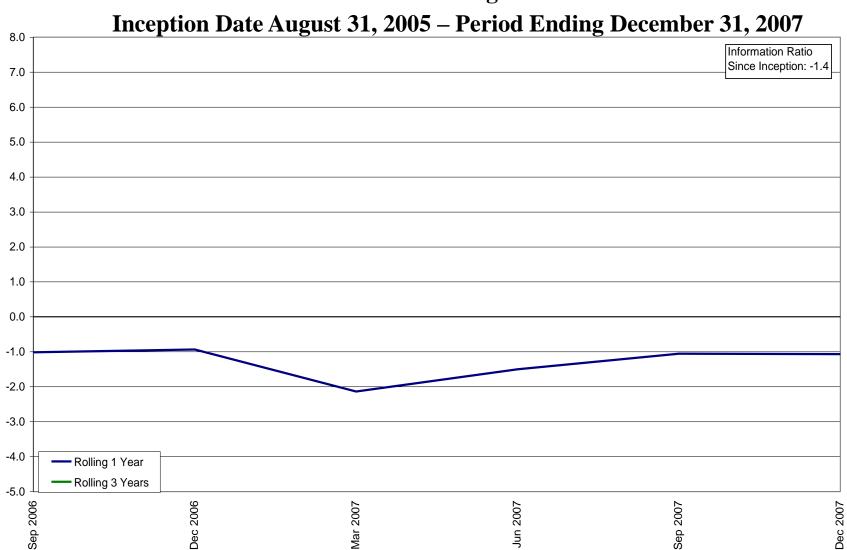
AXA Rosenberg Qualitative Factors

Factors	Description		
People	 Stock evaluation and portfolio construction are accomplished through AXA's expert system, as such the firm is not particularly vulnerable to key personnel departures. Daily interface between investment professionals is integrated globally so that all parties can access information from different regions. 		
Philosophy	• Believe investors can profit by purchasing under priced stocks; a company's fundamentals drive its earnings and the price paid for earnings ultimately drives performance.		
Process	 Portfolio characteristics are similar to the benchmark, stock selection drives performance. Through fundamental analysis they identify companies that are inexpensive relative to their peers and that can potentially generate future earnings. 		
	 AXA's process combines three models: <i>Valuation Model</i> – Identify most attractively priced stocks in each industry; <i>Earnings Forecast Model</i> –Identify companies with superior year-ahead earnings in each industry; <i>Risk Model</i> - Maximize return with Minimum deviation from the benchmark. The portfolio will typically hold 600 names, well diversified. 95% of research is generated internally by the Barr Rosenberg Research Center. 		

Alpha AXA Rosenberg Inception Date August 31, 2005 – Period Ending December 31, 2007



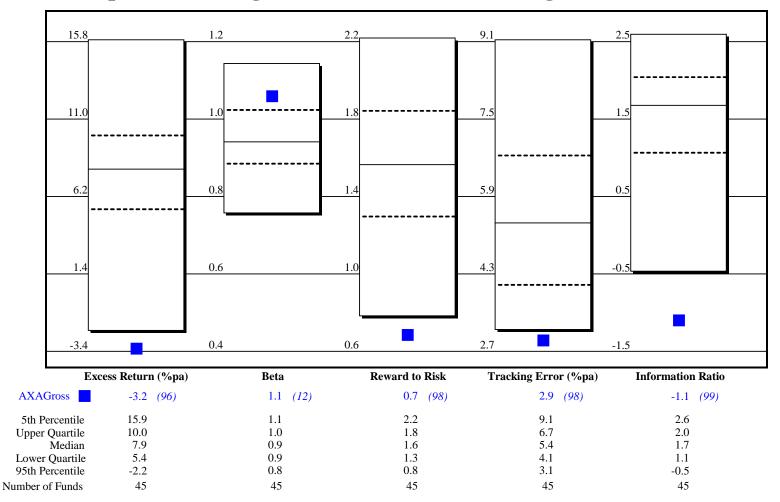
Information Ratio AXA Rosenberg



Calculated quarterly

Peer Comparison with the Mercer International Equity Small Cap Universe AXA Rosenberg

Inception Date August 31, 2005 – Period Ending December 31, 2007

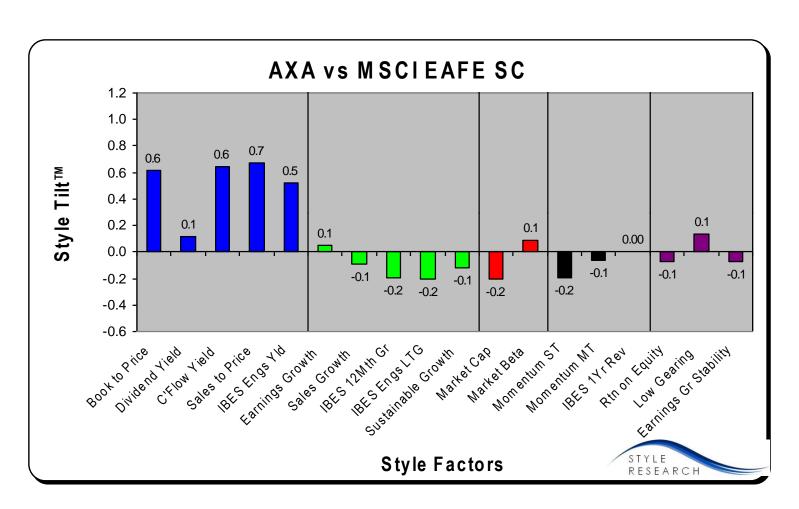


Please note this chart has been calculated using Gross of Fees Risk and Return characteristics calculated quarterly versus MSCI EAFE Small Cap

Positions: Style Analysis – Portfolio Style Skyline

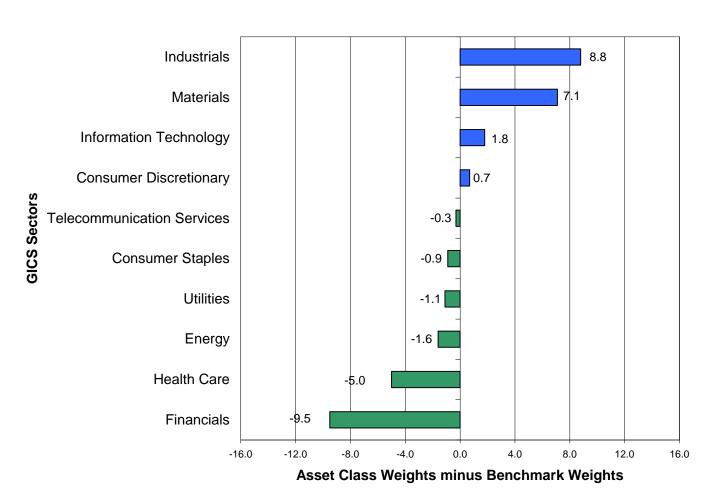
AXA Rosenberg

As of December 31, 2007



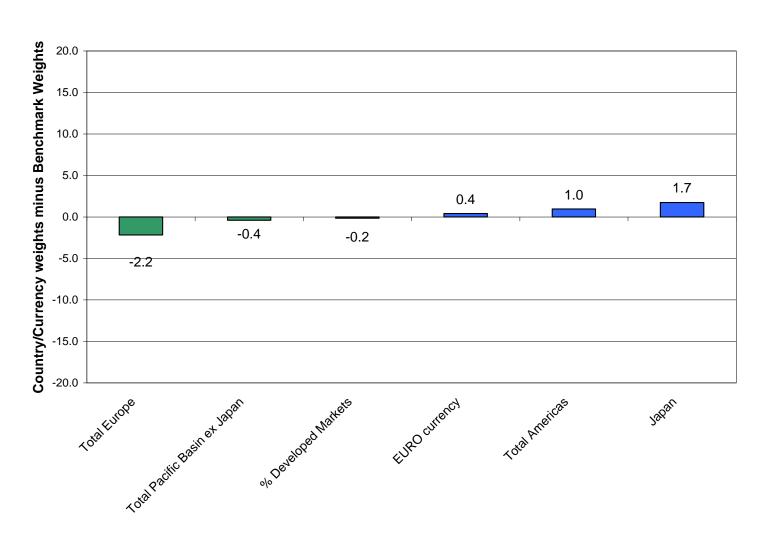
Positions: Economic Sectors

AXA Rosenberg As of December 31, 2007



Positions: Country/Currency Exposure

AXA Rosenberg As of December 31, 2007



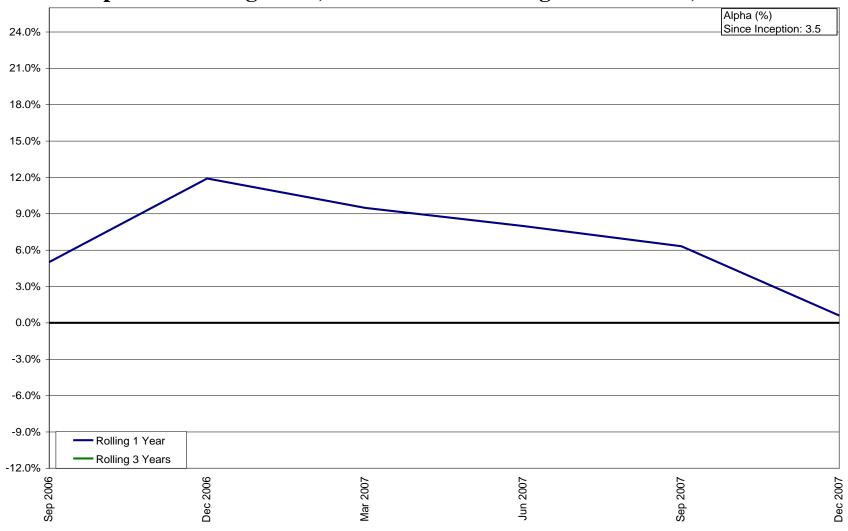
Mercer Manager Review As of December 31, 2007

AXA Rosenberg – International Equity – Active International Small Cap Equity					
Factor	Rating (-, =, + or ++)	Comments			
Idea Generation	++	We have a high degree of conviction in AXA Rosenberg's non-US			
Portfolio Construction	++	equity strategies. The products are suitable for clients seeking a well- diversified, highly risk-controlled product that has a higher risk budget than enhanced index products. As a result of the firm's investment			
Implementation	++	philosophy and process, the strategy can lag the benchmark in narrow			
Business Management	+	markets, such as when only a few sectors or regions outshine the resor in speculative markets because of the model's valuation components. These same characteristics, however, should help the strategy in stable markets or when valuation and earnings quality matter.			
Overall Rating	Α				
Rating Date	8/7/2007	macor.			

Dimensional Fund Advisors Qualitative Factors

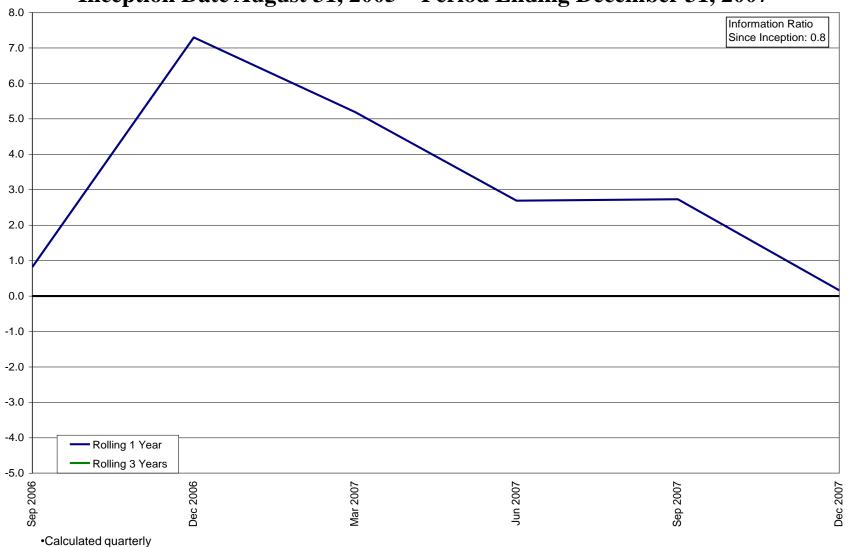
Factors	Description		
People	 Team approach where no one individual is solely responsible for a strategy or account. Stable team, low turnover among investment professionals. Research group plays a critical role in DFA's strategy and execution. 		
Philosophy	• Believe markets work: risk and return are related. Believe greater exposure to three factors: equity exposure, company size, and company price should result in a higher portfolio expected return.		
Process	 Don't select individual stocks Eligible securities are those in countries included in the MSCI EAFE Small Index and Canada that are also above \$25 million in market cap. Eligible securities are identified through screens for market cap (smallest 10-15%), bookto-market (top 30%), eligibility (no regulated utilities, recent IPOs, etc.), trading (buy, hold, sell ranges) on a country-by-country basis. Also add value through trading. Portfolio typically holds 1,000 securities, well diversified. 		

Alpha Dimensional Fund Advisors Inception Date August 31, 2005 – Period Ending December 31, 2007



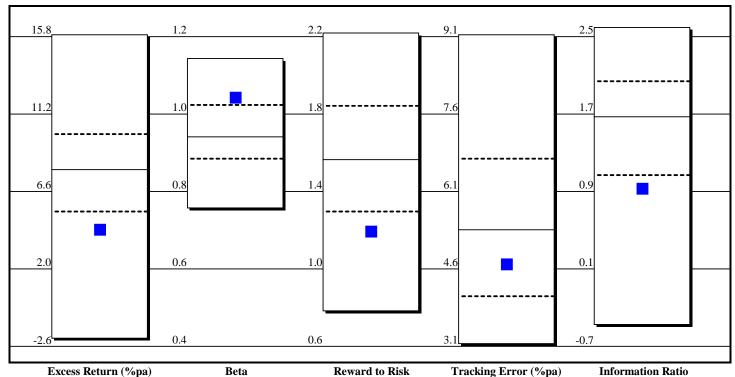
Calculated quarterly

Information Ratio Dimensional Fund Advisors Inception Date August 31, 2005 – Period Ending December 31, 2007



Peer Comparison with the Mercer International Equity Small Cap Universe Dimensional Fund Advisors

Inception Date August 31, 2005 – Period Ending December 31, 2007



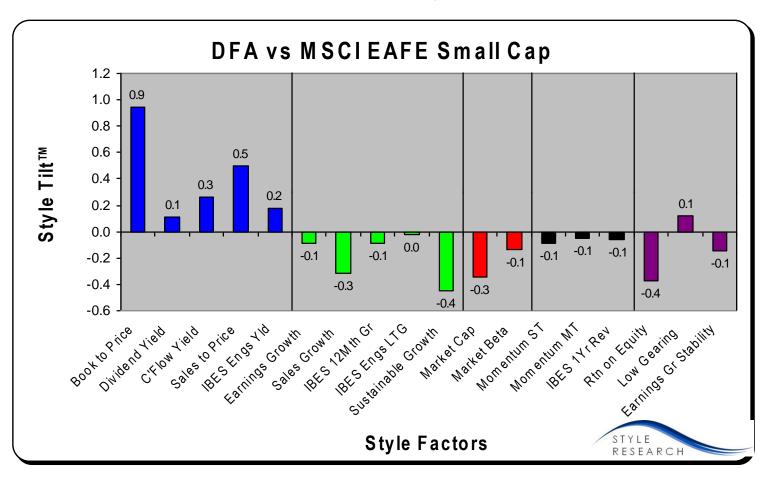
Excess Return (%pa)		Beta	Reward to Risk	Tracking Error (%pa)	Information Ratio
DFAGross	4.3 (82)	1.0 (17)	1.2 (81)	4.7 (59)	0.9 (81)
5th Percentile	15.9	1.1	2.2	9.1	2.6
Upper Quartile	10.0	1.0	1.8	6.7	2.0
Median		0.9	1.6	5.4	1.7
Lower Quartile	5.4	0.9	1.3	4.1	1.1
95th Percentile	-2.2	0.8	0.8	3.1	-0.5
Number of Funds	45	45	45	45	45

Please note this chart has been calculated using Gross of Fees
Risk and Return characteristics calculated quarterly versus MSCI EAFE Small Cap

Positions: Style Analysis – Portfolio Style Skyline

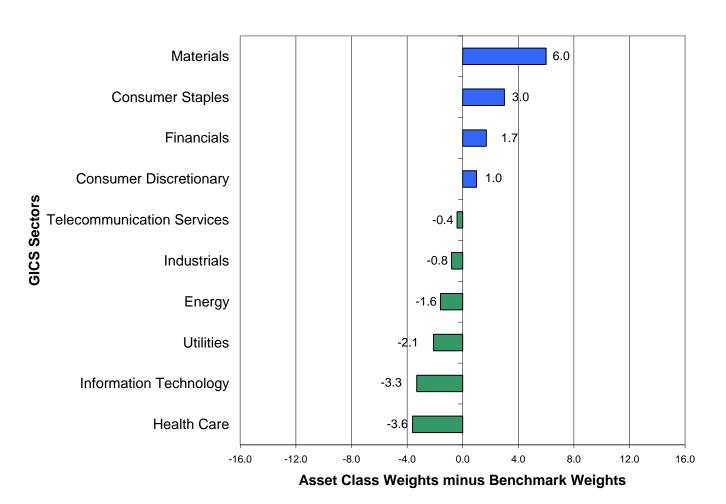
Dimensional Fund Advisors

As of December 31, 2007



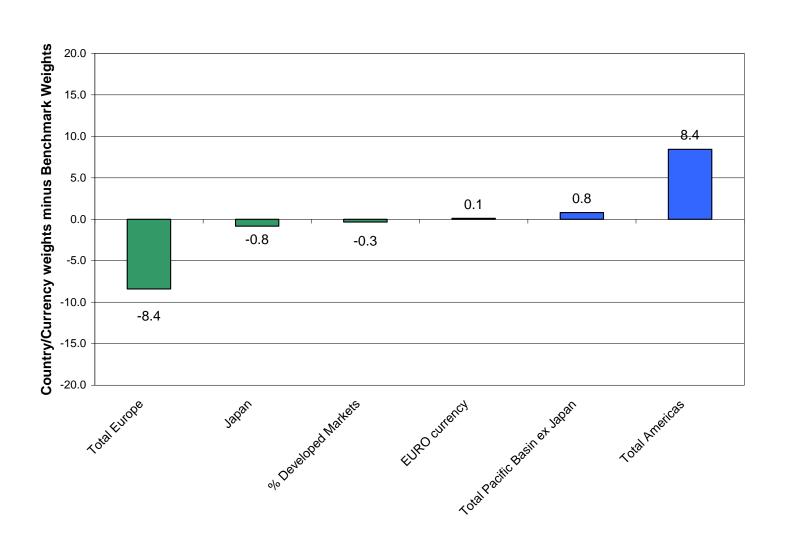
Positions: Economic Sectors

Dimensional Fund Advisors As of December 31, 2007



Positions: Country/Currency Exposure

Dimensional Fund Advisors As of December 31, 2007



Mercer Manager Review As of December 31, 2007

Dimensional Fund Advisors (DFA) – International Equity – Active International Small Cap Equity					
Factor	Rating (-, =, + or ++)	Comments			
Idea Generation	++	The beliefs underpinning DFA's approach are robust, and the			
Portfolio Construction	+	 investment process is well designed and consistently applied. The use of both committees and individuals to manage portfolios creates a direct linkage between research and port folio management and helps ensure that the firm's best thinking is quickly reflected in its strategies. The firm's trading skills are strong and DFA is committed to remaining at the forefront in this area. While our enthusiasm is tempered by concerns over the volume of assets DFA invests in small cap markets 			
Implementation	=				
Business Management	+				
Overall Rating	A –	we believe that these products are an effective means for clients with a long-term investment horizon to gain exposure to the size and value			
Rating Date	8/7/2007	premiums. Value portfolios display a strong bias to value factors and a tilt to the lower end of the size spectrum, even within the small cap universe. Core portfolios display a moderate tilt to value linked to the small size bias. The asset base is large and there is considerable liquidity risk attached to this strategy. Deviations from conventional benchmarks at the market and sector level are pronounced and tracking error can be high, especially in periods when growth stocks and momentum are driving the market.			

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- The value of Gilts, bonds, and other fixed income investments including unit trusts can go down as well as up and you may not get back the amount you have invested.
- Investments denominated in a foreign currency will fluctuate with the value of the currency.
- The value of investments in real property can go down as well as up, and you may not get back the amount you have invested. Valuation is generally a matter of a valuer's opinion, rather than fact. It may be difficult or impossible to realise an investment because the property concerned may not be readily saleable.
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